

WHAT IS CLAIMED IS:

1. An antenna of colinear type comprising a radiating portion comprising:

- three substantially rectilinear conductive wire elements that are mutually parallel, comprising a central conductor and two lateral conductors; and

- 2N radiating zones constituted by alternating first radiating zones and second radiating zones:

- each first radiating zone further comprising a cylindrical conductive element whose axis coincides with said central wire element and which is electrically connected to both of said lateral wire elements; and

- each second radiating zone further comprises two cylindrical conductive elements whose axes coincide substantially respectively with the lateral wire elements, said cylindrical elements being electrically connected to said central wire element; a gap being left between two consecutive radiating zones.

2. An antenna according to claim 1, in which each cylindrical element resonates at half wavelengths.

3. An antenna according to claim 2, in which each cylindrical element is of length L and contains internally a disk of a dielectric material having a dielectric coefficient ϵ , the disk extending orthogonally to the wire element and being of length ℓ' in the direction of the wire element such that:

$$L + \epsilon \ell' = \lambda/2$$

4. An antenna according to claim 1, further comprising, at its end for connection to an antenna cable, at least one current trap comprising at least one conductive element surrounding said cable and of length $\lambda/4$, being electrically connected to said cable.

5. An antenna according to claim 1, in which the ratio between the length of a cylindrical conductive element over its diameter is about 5.